

## SECTION 09621

### RESILIENT ATHLETIC FLOORING

#### PART 1 - GENERAL

##### 1.1 SUMMARY

- A. This Section includes the following:
  - 1. Resilient Athletic Flooring.

##### 1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's technical data, application instructions and general recommendations.
- B. Shop Drawing: Provide drawing indicating floor termination details and game line layout.
- C. Samples for Selection: Submit two samples, 8 x 4 inch (200 x 100 mm) in size illustrating color and texture for each floor material for each color specified.
- D. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.
- E. Manufacturers maintenance instructions.
- F. LEED Submittal:
  - 1. Credit MR 2.1 and 2.2: Comply with Division 1 Section "Construction Waste Management."
  - 2. Product Data for Credit MR 4.1 and Credit MR 4.2: For products having recycled content, documentation indicating percentages by weight of postconsumer and preconsumer recycled content.
    - a. Include statement indicating costs for each product having recycled content.
  - 3. Credit MR 5.1: Product Data indicating location of material manufacturer for regionally manufactured materials.
    - a. Include statement indicating cost and distance from manufacturer to Project for each regionally manufactured material.
  - 4. Credit EQ 4.1: Manufacturers' product data for interior sealants, including printed statement of VOC content and material safety data sheets.

##### 1.3 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer approved Installer, who has technical qualifications, currently certified in writing, and facilities to install specified systems.

#### 1.4 DELIVERY, STORAGE, AND HANDLING

- A. Store products in dry spaces protected from the weather, with ambient temperatures maintained between 65 and 90 deg F.
- B. Store rolls upright.

#### 1.5 PROJECT CONDITIONS

- A. Maintain a temperature of not less than 65 deg F or more than 86 deg F in spaces to receive products for at least 48 hours before installation, during installation, and for at least 48 hours after installation, unless manufacturer's written recommendations specify longer time periods. After postinstallation period, maintain a temperature of not less than 55 deg F (13 deg C) or more than 95 deg F (35 deg C).
- B. Provide lighting of no less than 80 ft. candles measured at floor surface
- C. Close spaces to traffic during flooring installation and for time period after installation recommended in writing by manufacturer.

#### 1.6 WARRANTY

- A. Warranty: Include coverage against flooring delamination from substrate and degradation of surface finish for a period of two years after date of substantial completion. This coverage is limited to the normal use and maintenance of the product. This warranty will become null and void if the subfloor conditions and installation procedures do not conform to those prescribed by Taraflex.

### PART 2 - PRODUCTS

#### 2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
  - 1. Gerfor/Taraflex Sports Flooring: Taraflex Sport M.

#### 2.2 MATERIALS

- A. Composition: The point elastic pure vinyl sport flooring shall be a homogenous 2.1mm thick wear-layer combined with a closed-cell foam cushioned backing, reinforced with a fiber glass mesh interlayer to improve dimensional stability.
- B. A fungistatic and bacteriostatic treatment shall be incorporated throughout the thickness of the surface. The wearlayer shall be treated with a photoreticulated, UV cured polyurethane, anti-dirt treatment, applied at the factory to give the surface high resistance to soiling and scuff marks, while retaining its excellent playing characteristics.

- C. Technical Data:
  - 1. Width: 4"-11".
  - 2. Length: 95 feet max.
  - 3. Thickness: 0.264 inches (6.7 mm)

## 2.3 ACCESSORIES

- A. Subfloor Filler: White premix latex; type recommended by flooring material manufacturer.
- B. Adhesives: Only use adhesives approved by Taraflex. Taraflex will not guarantee product performance when used with non-approved adhesives substitutes. For adhesive performance questions, refer to adhesive manufacturer recommendations.
- C. Loose Lay Moisture Barrier: Water resistant insulating fiberglass underlayment that creates a vapor barrier and will protect the sports flooring from sub floor moisture.
- D. Base: Heavy duty, 3 inch by 4 inch, molded, vented vinyl base with premolded corners.

## 2.4 COLORS

- A. Color as selected by Architect from manufacturer's full line of color options including wood grain options.

# PART 3 - EXECUTION

## 3.1 EXAMINATION

- A. Examine substrates, areas, and conditions where installation of products will occur, with Installer present, for compliance with manufacturer's requirements. Verify that substrates and conditions are satisfactory for resilient product installation and comply with requirements specified.
- B. Concrete Subfloors: Verify that concrete slabs cured a minimum 28 days and the following:
  - 1. Slab substrates are dry and free of curing compounds, sealers, hardeners, and other materials that may interfere with adhesive bond. Determine adhesion and dryness characteristics by performing bond and moisture tests recommended by flooring manufacturer.
  - 2. Subfloors are free of cracks, ridges, depressions, scale, and foreign deposits.
- C. Moisture Emission Testing: Conduct moisture emission testing of concrete slabs-on-grade and elevated slabs to receive floor coverings or coatings by the calcium chloride test method. Perform tests in accordance with ASTM F-1869. Conduct testing using an independent agency with a minimum of five years experience in moisture emission testing or as pre-approved by the manufacturer of the flooring material.
  - 1. Conduct a minimum of three tests for the first 1,000 sq. ft. and one additional test for each additional 2,000 sq. ft.
  - 2. Ambient test environment shall conform to ASTM-1869 and be reflective of the building's normal operational environment.
  - 3. Conduct tests on bare concrete, free of surface contaminants, adhesives, curing compounds or sealers.

4. Locate test locations a minimum of five feet from exterior walls or interior walls that penetrate the floor. Do not conduct tests over random cracks or within five feet of control or construction joints.
  5. Maximum permissible concrete moisture level is 10.0 lbs. /1,000 s.f. / 24 hours
- D. Do not proceed with installation until unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Remove grease, oil, and other penetrating contaminates. Repair damaged and deteriorated concrete to acceptable condition. Leave surface free of dust, dirt, laitance, and efflorescence.
- B. Moving cracks and joints shall be thoroughly routed and vacuumed clean, then filled with approved material.
- C. Vacuum clean substrate.
- D. Install Moisture Barrier in accordance with manufacturer's recommendations.

### 3.3 INSTALLATION

- A. General: The installation of Taraflex Sports flooring should be done according to written instructions provided Taraflex. See the Taraflex specifications and installation guide for further details.
- B. Seaming of joints (heat welding method) as recommended in installation manual.
- C. Game Lines: All court lines shall be applied using the compounded polyurethane paint as approved by Taraflex. Colors to be selected from the Taraflex color chart.

### 3.4 CLEANING AND PROTECTING

- A. Protect flooring against mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods indicated or recommended in writing by flooring manufacturer.
- B. Clean floor surfaces not more than 4 days before dates scheduled for inspections intended to establish date of Substantial Completion in each area of Project. Clean products according to manufacturer's written recommendations.

END OF SECTION